FCC TEST REPORT
FCC ID:2AJDD-MEASTR100

Report Number.....:	ZKT-2305293948E-4
Date of Test.....	May. 29, 2023- Jun. 07, 2023
Date of issue.....:	Jun. 07, 2023
Total number of pages.....	97
Test Result ..... :	PASS
Testing Laboratory..... :	**Shenzhen ZKT Technology Co., Ltd.**
Address ..... :	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name .....:	**SHENZHEN FCAR TECHNOLOGY CO.,LTD**
Address ..... :	8th floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060
Manufacturer's name .....:	**SHENZHEN FCAR TECHNOLOGY CO.,LTD**
Address ..... :	8th floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060
Test specification:	
Standard.....:	FCC CFR Title 47 Part 15 Subpart E Section 15.407 ANSI C63.10:2013 KDB 789033 D02 v01r02
Test procedure..... :	/
Non-standard test method .....:	N/A
Test Report Form No..... :	TRF-EL-113_V0
Test Report Form(s) Originator..... :	ZKT Testing
Master TRF ..... :	Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Product name..... :	**Tire Tread Depth Gauge**
Trademark .....:	FCAR
Model/Type reference..... :	TR100
Ratings..... :	Input: DC 5V by adapter Battery: DC 3.6V

Testing procedure and testing location:

Testing Laboratory..... :	Shenzhen ZKT Technology Co., Ltd.
Address..... :	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Tested by (name + signature)..... :	Jim Liu
Reviewer (name + signature)..... :	Tom Zou
Approved (name + signature)..... :	Lake Xie

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1. VERSION

Report No.	Version	Description	Approved
ZKT-2305293948E-4	Rev.01	Initial issue of report	Jun. 07, 2023

2.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	Spurious Radiated Emissions	PASS	
15.207	Conducted Emission	PASS	
15.407 (a)(12) 15.1049	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	6 dB bandwidth	PASS	
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS	
2.1051, 15.407(b)(1) 15.407(b)(4)	Band Edge	PASS	
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS	
2.1051, 15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=12dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Tire Tread Depth Gauge	
Model No.:	TR100	
Model Different.:	N/A	
Sample ID	ZKT-2305293948E-4	
Sample(s) Status:	Engineer sample	
Product Description	IEEE 802.11 WLAN Mode Supported	☒ 802.11a/ac/n (20MHz channel bandwidth) ☒ 802.11ac/n (40MHz channel bandwidth) ☒ 802.11ac(80MHz channel bandwidth)
	Data Rate	802.11a/ac/n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT80):NSS1, MCS0-MCS9
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
	Operating Frequency Range	☒ 5180-5240MHz for 802.11a/ac/n(HT20); 5190-5230MHz for 802.11ac/n(HT40); 5210MHz for 802.11 ac80; ☒ 5745-5825 MHz for 802.11a/ac/n(HT20); 5755-5795 MHz for 802.11ac/n(HT40); 5775MHz for 802.11 ac80;
	Number of Channels	☒ 4 channels for 802.11a/ac/n20 in the 5180-5240MHz band ; 2 channels for 802.11 ac/n40 in the 5190-5230 MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; ☒ 5 channels for 802.11a/ac/n20 in the 5745-5825MHz band ; 2 channels for 802.11 ac/n40 in the 5755-5795 MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
Channel List	Please refer to the Note 2.	
Antenna Type:	FPCB Antenna	
Antenna gain:	1dBi	
Power supply:	Input: DC 5V by adapter Battery: DC 3.6V	
SWITCHING POWER ADAPTER:	N/A	

802.11a/ac/n(20MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11ac/n(40MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac (80MHz) Frequency Channel	
Channel	Frequency (MHz)
42	5210

802.11a/ac/n(20 MHz) Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11ac/n(40MHz) Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Frequency Channel	
Channel	Frequency (MHz)
155	5775

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Pretest Mode	Description
Mode 1	802.11a/ac / n 20 CH36/ CH40/ CH 48 802.11a/ac /n 20 CH149/ CH157/ CH 165

Mode 2	802.11ac / n 40 CH38/ CH 46 802.11ac / n 40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155

Conducted Emission	
Final Test Mode	Description
Mode1	802.11a

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a/ac / n 20 CH36/ CH40/ CH 48 802.11a/ac /n 20 CH149/ CH157/ CH 165
Mode 2	802.11ac / n 40 CH38/ CH 46 802.11ac / n 40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

Test Software	Realtek Test Tool
Power level setup	<20dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

DC Line — EUT

Radiated Emission

EUT

Conducted Spurious

EUT

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tire Tread Depth Gauge	FCAR	TR100	N/A	EUT
A-1	AC Adapter	HuaWei	HW-200200CP1	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Oct. 21, 2022	Oct. 20, 2023
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Oct. 21, 2022	Oct. 20, 2023
3	Test Cable	N/A	C-01	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
4	Test Cable	N/A	C-02	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
5	Test Cable	N/A	C-03	N/A	N/A	Oct. 21, 2022	Oct. 20, 2023
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 28, 2022	Oct. 27, 2023
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Oct. 31, 2022	Oct. 30, 2023
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation emissions& Radio Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Oct. 28, 2022	Oct. 27, 2023
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Oct. 28, 2022	Oct. 27, 2023
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	4.32	Oct. 28, 2022	Oct. 27, 2023
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 02, 2022	Nov. 01, 2023
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 01, 2022	Oct. 31, 2023
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Oct. 28, 2022	Oct. 27, 2023
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 01, 2022	Oct. 31, 2023
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	N/A	Nov. 15, 2022	Nov. 14, 2023
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	N/A	Oct. 28, 2022	Oct. 27, 2023
10	Amplifier (500MHz-40GHz)	QUANJUDA	DLE-161	097	N/A	Oct. 28, 2022	Oct. 27, 2023
11	Test Cable	N/A	R-01	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
12	Test Cable	N/A	R-02	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
13	Test Cable	N/A	R-03	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
14	Test Cable	N/A	RF-01	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
15	Test Cable	N/A	RF-02	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023

16	Test Cable	N/A	RF-03	N/A	N/A	Oct. 28, 2022	Oct. 27, 2023
17	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Oct. 21, 2022	Oct. 20, 2023
18	Signal Generator	Agilent	N5182A	N/A	A.01.87	Oct. 21, 2022	Oct. 20, 2023
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 15, 2022	Nov. 14, 2023
20	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Oct. 28, 2022	Oct. 27, 2023
21	RF Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	Oct. 21, 2022	Oct. 20, 2023
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\
25	Turntable	MF	MF-7802BS	N/A	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\

4.EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -12	56.00	46.00	FCC
12 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

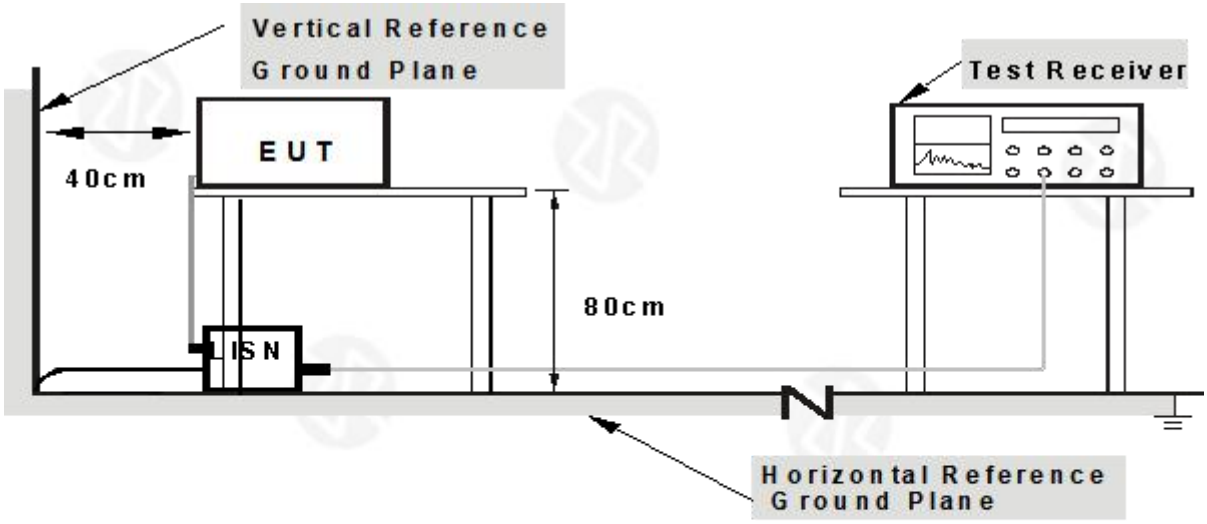
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD
No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

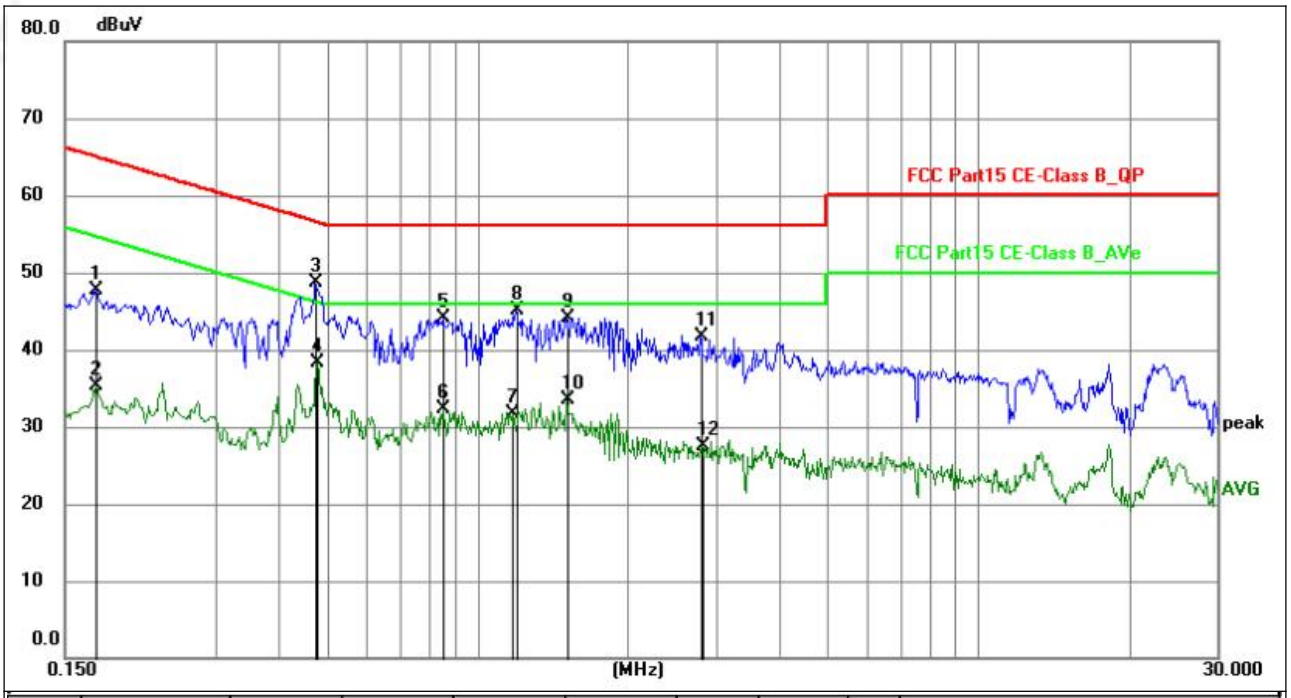
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT

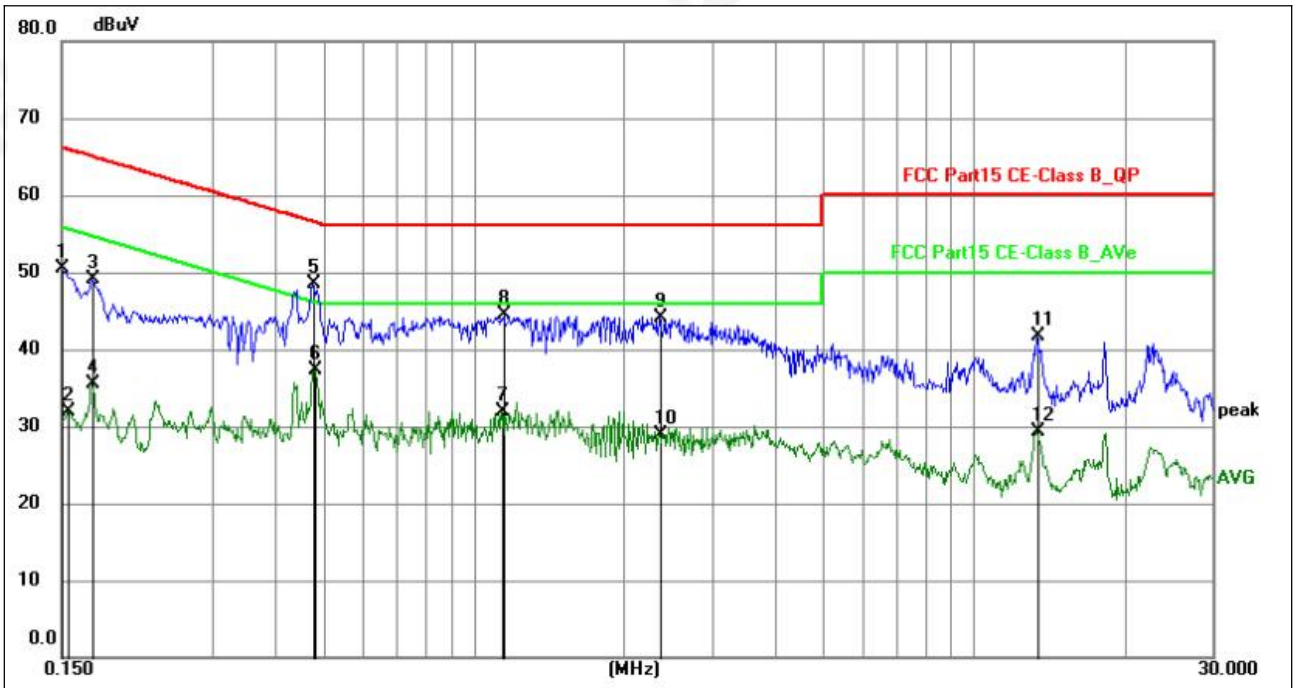
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test mode :	802.11a worst case



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1728	27.21	20.57	47.78	64.82	-17.04	QP	P	
2	0.1728	14.75	20.57	35.32	54.82	-19.50	AVG	P	
3	0.4737	28.22	20.57	48.79	56.45	-7.66	QP	P	
4	0.4783	17.71	20.56	38.27	46.37	-8.10	AVG	P	
5	0.8564	23.45	20.69	44.14	56.00	-11.86	QP	P	
6	0.8564	11.67	20.69	32.36	46.00	-13.64	AVG	P	
7	1.1754	10.85	20.76	31.61	46.00	-14.39	AVG	P	
8	1.1935	24.29	20.76	45.05	56.00	-10.95	QP	P	
9	1.5040	23.37	20.81	44.18	56.00	-11.82	QP	P	
10	1.5040	12.68	20.81	33.49	46.00	-12.51	AVG	P	
11	2.7915	20.97	20.80	41.77	56.00	-14.23	QP	P	
12	2.8140	6.78	20.79	27.57	46.00	-18.43	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test mode :	802.11a worst case



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	29.83	20.58	50.41	66.00	-15.59	QP	P	
2	0.1544	11.31	20.60	31.91	55.76	-23.85	AVG	P	
3	0.1723	28.41	20.68	49.09	64.85	-15.76	QP	P	
4	0.1723	14.88	20.68	35.56	54.85	-19.29	AVG	P	
5	0.4783	27.73	20.70	48.43	56.37	-7.94	QP	P	
6	0.4828	16.68	20.69	37.37	46.29	-8.92	AVG	P	
7	1.1400	11.04	20.81	31.85	46.00	-14.15	AVG	P	
8	1.1489	23.60	20.81	44.41	56.00	-11.59	QP	P	
9	2.3549	23.32	20.86	44.18	56.00	-11.82	QP	P	
10	2.3549	8.13	20.86	28.99	46.00	-17.01	AVG	P	
11	13.3391	20.18	21.53	41.71	60.00	-18.29	QP	P	
12	13.3391	7.74	21.53	29.27	50.00	-20.73	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

4.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

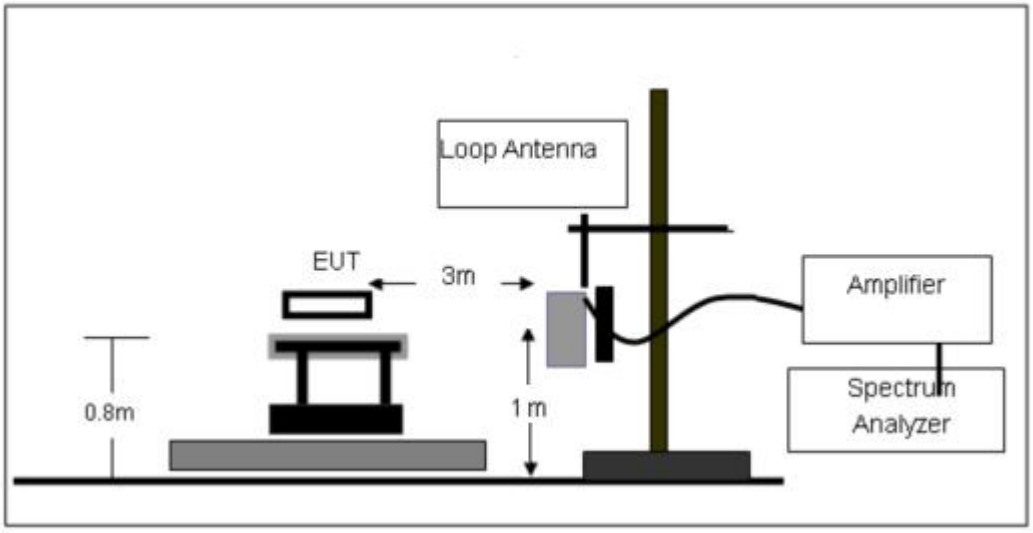
Remark :1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

4.2.3 MEASURING INSTRUMENTS

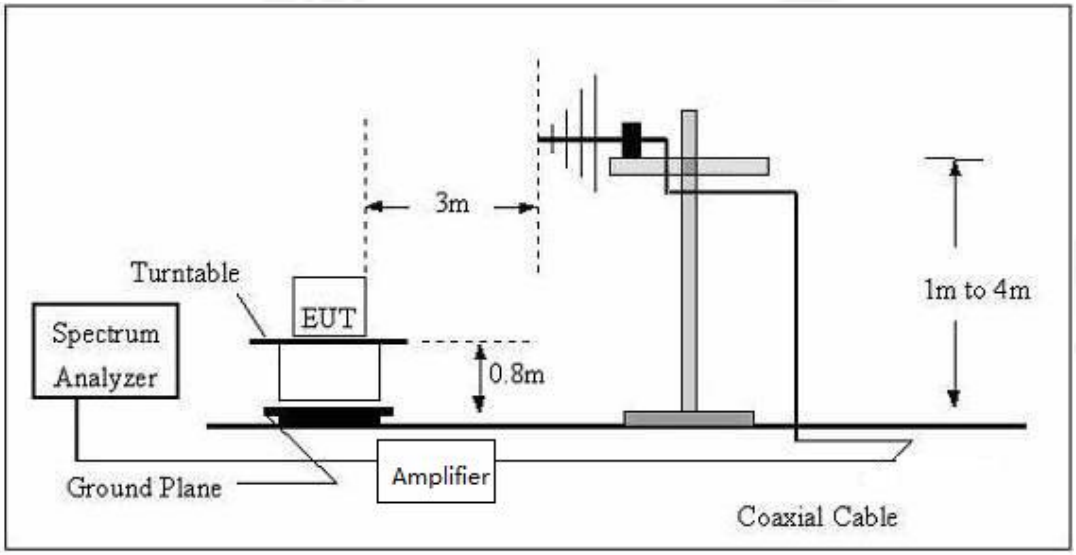
The Measuring equipment is listed in the section 6.3 of this test report.

4.2.4 TEST CONFIGURATION

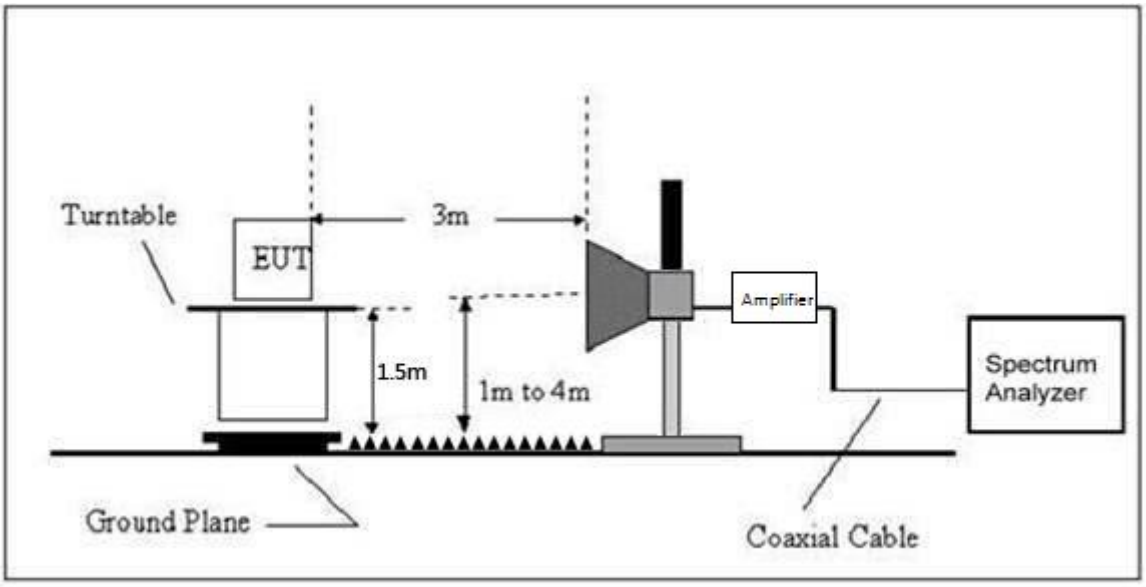
1.For radiated emissions below 30MHz



2.For radiated emissions from 30MHz to 1000MHz



3. Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

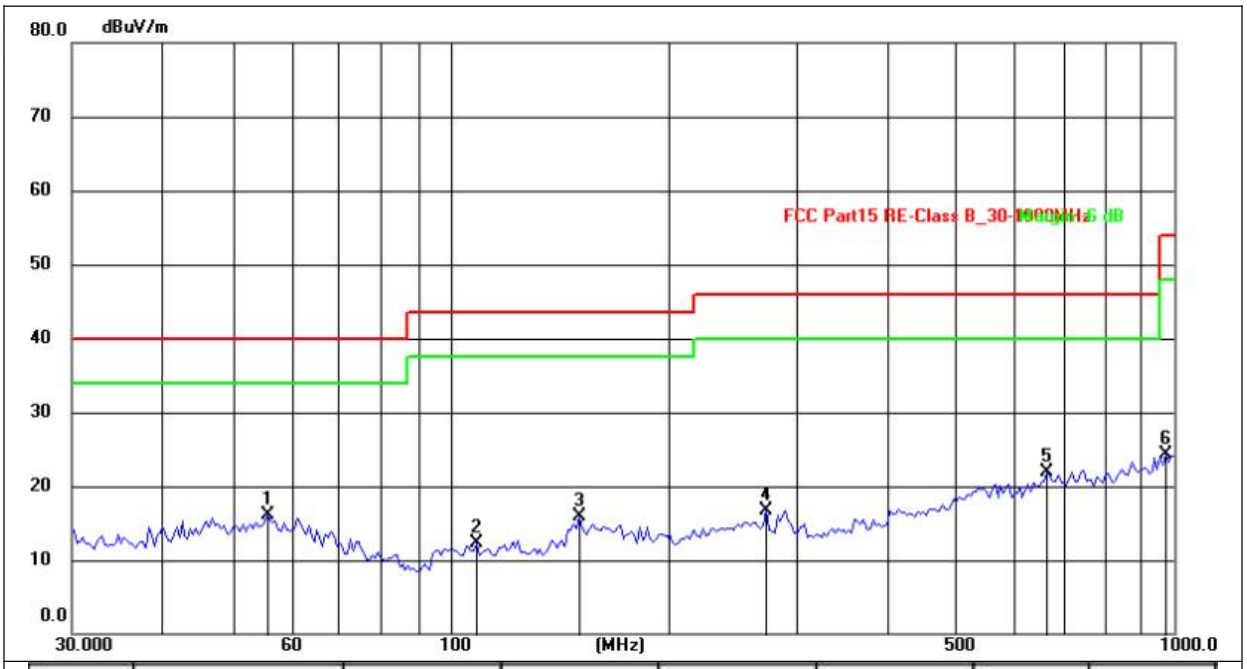
4.2.6 TEST RESULT

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

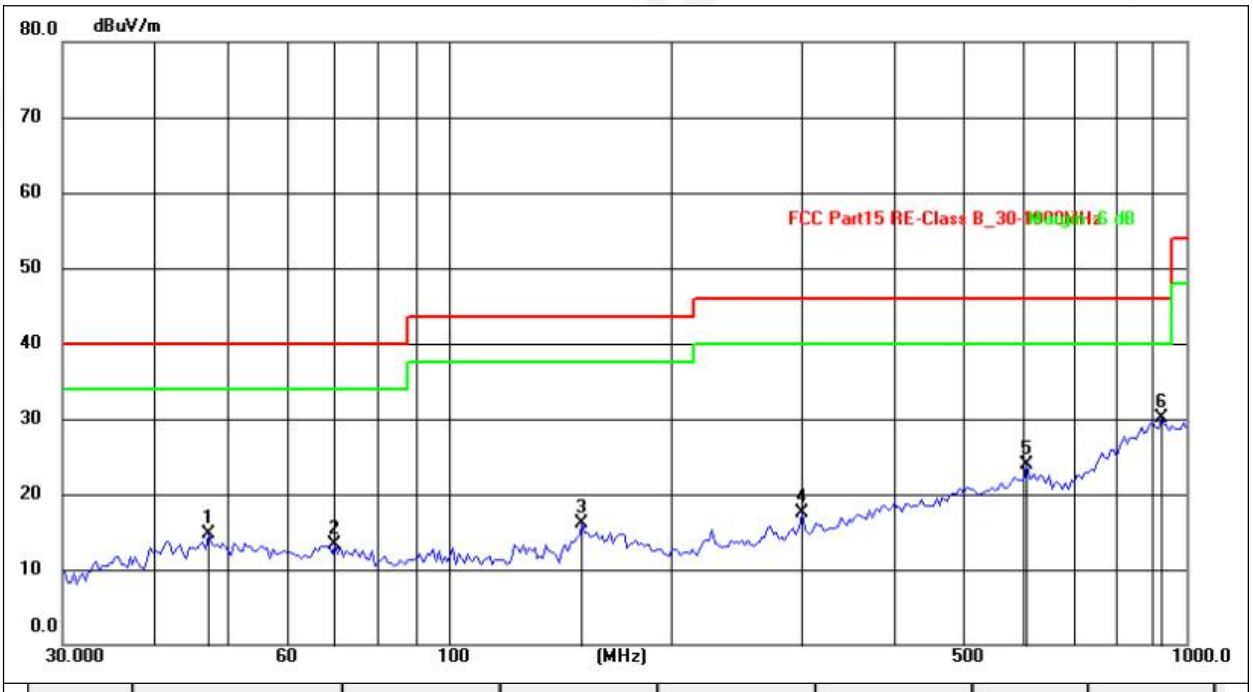
Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test mode :	TX mode (802.11a)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	55.9025	30.20	-14.15	16.05	40.00	-23.95	QP
2	108.8375	31.58	-19.27	12.31	43.50	-31.19	QP
3	150.5377	32.48	-16.54	15.94	43.50	-27.56	QP
4	273.2339	31.55	-14.75	16.80	46.00	-29.20	QP
5	668.1422	29.32	-7.39	21.93	46.00	-24.07	QP
6	974.0434	29.75	-5.41	24.34	54.00	-29.66	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test mode :	TX mode (802.11a)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.3253	31.93	-17.18	14.75	40.00	-25.25	QP
2	70.2132	32.61	-19.40	13.21	40.00	-26.79	QP
3	151.8632	36.51	-20.49	16.02	43.50	-27.48	QP
4	300.8942	35.86	-18.30	17.56	46.00	-28.44	QP
5	606.7219	31.71	-7.76	23.95	46.00	-22.05	QP
6	924.1345	30.78	-0.61	30.17	46.00	-15.83	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case 802.11a 20 5180MHz mode

Between 1GHz – 40GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	5.2G TX- 802.11a20		

802.11a20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:5180MHz									
V	10360.00	50.13	30.55	5.77	24.66	50.01	74.00	-23.99	PK
V	10360.00	43.15	30.55	5.77	24.66	43.03	54.00	-10.97	AV
V	15540.00	52.17	30.33	6.32	24.55	52.71	74.00	-21.29	PK
V	15540.00	43.97	30.33	6.32	24.55	44.51	54.00	-9.49	AV
H	10360.00	51.04	30.55	5.77	24.66	50.92	74.00	-23.08	PK
H	10360.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
H	15540.00	51.13	30.33	6.32	24.55	51.67	74.00	-22.33	PK
H	15540.00	43.83	30.33	6.32	24.55	44.37	54.00	-9.63	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:5200MHz									
V	10400.00	51.70	30.55	5.77	24.66	51.58	74.00	-22.42	PK
V	10400.00	43.96	30.55	5.77	24.66	43.84	54.00	-10.16	AV
V	15600.00	51.12	30.33	6.32	24.55	51.66	74.00	-22.34	PK
V	15600.00	43.40	30.33	6.32	24.55	43.94	54.00	-10.06	AV
H	10400.00	50.63	30.55	5.77	24.66	50.51	74.00	-23.49	PK
H	10400.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
H	15600.00	54.90	30.33	6.32	24.55	55.44	74.00	-18.56	PK
H	15600.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:5240MHz									
V	10480.00	52.02	30.55	5.77	24.66	51.90	74.00	-22.10	PK
V	10480.00	43.63	30.55	5.77	24.66	43.51	54.00	-10.49	AV
V	15720.00	50.14	30.33	6.32	24.55	50.68	74.00	-23.32	PK
V	15720.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
H	10480.00	52.55	30.55	5.77	24.66	52.43	74.00	-21.57	PK
H	10480.00	43.18	30.55	5.77	24.66	43.06	54.00	-10.94	AV
H	15720.00	54.00	30.33	6.32	24.55	54.54	74.00	-19.46	PK
H	15720.00	43.23	30.33	6.32	24.55	43.77	54.00	-10.23	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. The worst mode is 802.11a 20, only the worst data is recorded.

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.6V
Test Mode :	5.8G TX- 802.11a20		

802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:5745MHz									
V	11490.00	54.98	30.55	5.77	24.66	54.86	74.00	-19.14	PK
V	11490.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	17231.20	53.08	30.33	6.32	24.55	53.62	74.00	-20.38	PK
V	17231.20	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
H	11490.00	53.57	30.55	5.77	24.66	53.45	74.00	-20.55	PK
H	11490.00	43.18	30.55	5.77	24.66	43.06	54.00	-10.94	AV
H	17231.20	52.68	30.33	6.32	24.55	53.22	74.00	-20.78	PK

H	17231.20	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:5785MHz									
V	11570.00	51.31	30.55	5.77	24.66	51.19	74.00	-22.81	PK
V	11570.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
V	17351.00	53.81	30.33	6.32	24.55	54.35	74.00	-19.65	PK
V	17351.00	43.53	30.33	6.32	24.55	44.07	54.00	-9.93	AV
H	11570.00	53.60	30.55	5.77	24.66	53.48	74.00	-20.52	PK
H	11570.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
H	17351.00	52.88	30.33	6.32	24.55	53.42	74.00	-20.58	PK
H	17351.00	43.55	30.33	6.32	24.55	44.09	54.00	-9.91	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:5825MHz									
V	11650.00	50.42	30.55	5.77	24.66	50.30	74.00	-23.70	PK
V	11650.00	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
V	17471.00	50.43	30.33	6.32	24.55	50.97	74.00	-23.03	PK
V	17471.00	43.63	30.33	6.32	24.55	44.17	54.00	-9.83	AV
H	11650.00	50.21	30.55	5.77	24.66	50.09	74.00	-23.91	PK
H	11650.00	43.04	30.55	5.77	24.66	42.92	54.00	-11.08	AV
H	17471.00	54.82	30.33	6.32	24.55	55.36	74.00	-18.64	PK
H	17471.00	43.18	30.33	6.32	24.55	43.72	54.00	-10.28	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. The worst mode is 802.11a20, only the worst data is recorded.

Radiated Band Edge ：

Worse case mode:		802.11a					
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.31	-0.12	54.19	68.20	-20.42	peak	H
5150	41.25	-0.12	41.13	54.00	-15.59	AV	H
5150	53.98	-0.12	53.86	68.20	-19.9	peak	V
5150	40.17	-0.12	40.05	54.00	-13.61	AV	V
5250	53.14	-0.12	53.02	68.20	-21.35	peak	H
5250	41.29	-0.12	41.17	54.00	-13.67	AV	H
5250	53.87	-0.12	53.75	68.20	-19.98	peak	V
5250	41.20	-0.12	41.08	54.00	-14.93	AV	V
5350	35.78	-0.12	35.66	68.20	-32.54	peak	H
5350	26.59	-0.12	26.47	54.00	-27.53	AV	H
5350	35.93	-0.12	35.81	68.20	-32.39	peak	V
5350	26.07	-0.12	25.95	54.00	-28.05	AV	V

Worse case mode:		802.11a					
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	50.21	-0.12	49.29	68.2	-18.91	peak	H
5700	88.63	-0.12	87.11	105.2	-18.09	peak	H
5720	88.52	-0.12	88.51	110.8	-22.29	peak	H
5725	97.71	-0.12	97.91	122.2	-24.29	peak	H
5650	42.16	-0.12	47.29	68.2	-20.91	peak	V
5700	89.01	-0.12	87.58	105.2	-17.62	peak	V
5720	90.24	-0.12	90	110.8	-20.8	peak	V
5725	92.68	-0.12	93.83	122.2	-28.37	peak	V
5850	100.24	-0.12	100.37	122.2	-21.83	peak	H
5855	84.71	-0.12	85.16	110.8	-25.64	peak	H
5875	81.59	-0.12	82.46	105.2	-22.74	peak	H
5925	54.1	-0.12	52.96	68.2	-15.24	peak	H
5850	102.59	-0.12	103.66	122.2	-18.54	peak	V
5855	90.14	-0.12	89.52	110.8	-21.28	peak	V
5875	85.74	-0.12	86.04	105.2	-19.16	peak	V
5925	54.19	-0.12	52.96	68.2	-15.24	peak	V

Remark:

1.Factor =Antenna Factor + Cable Loss － Pre-amplifier

2.The worst mode is 802.11a20, only the worst data is recorded.

5.POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(3)

Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

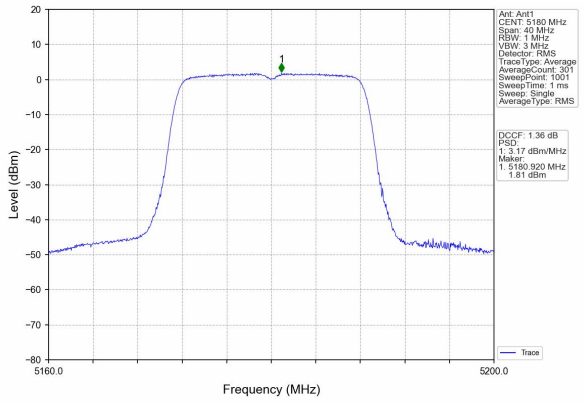
5.6 TEST RESULTS

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1015 hPa	Test Voltage:	DC 3.6V
Test Mode :	TX		

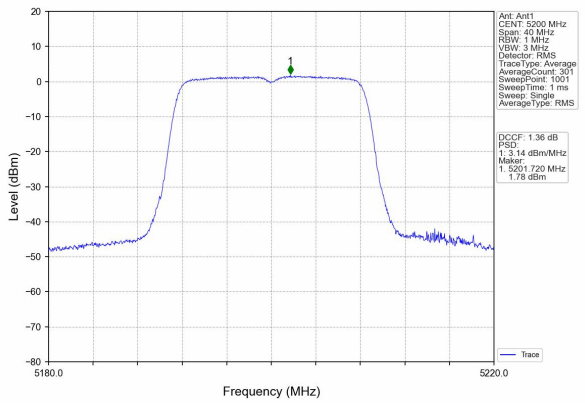
Test mode	Test Channel (MHz)	PSD [dBm/MHz]	Limit (dBm/MHz)	Result
802.11a20	5180	3.17	11	Pass
	5200	3.14	11	Pass
	5240	3.77	11	Pass
802.11n(HT20)	5180	3.27	11	Pass
	5200	3.45	11	Pass
	5240	3.77	11	Pass
802.11n(HT40)	5190	-3.90	11	Pass
	5230	-3.31	11	Pass
802.11ac(VH20)	5180	3.11	11	Pass
	5200	3.48	11	Pass
	5240	3.59	11	Pass
802.11ac(VH40)	5190	3.79	11	Pass
	5230	3.77	11	Pass
802.11ac(VH80)	5210	1.53	11	Pass

Note: The duty cycle correction factor is compensated in the graph.

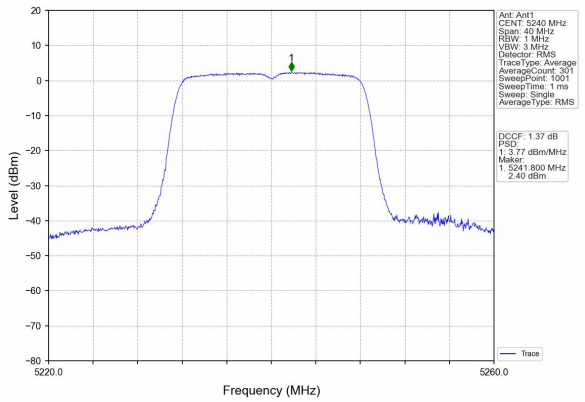
(802.11a20) PSD plot on channel 36



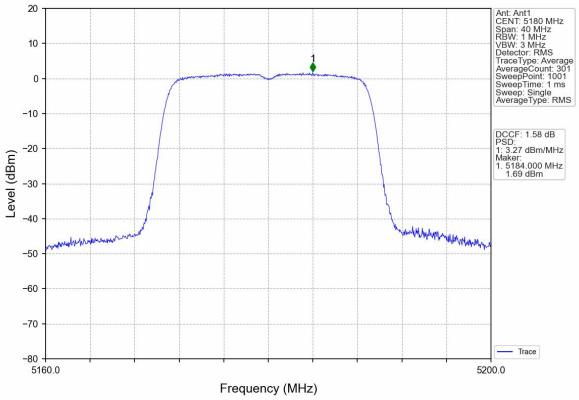
(802.11a20) PSD plot on channel 40



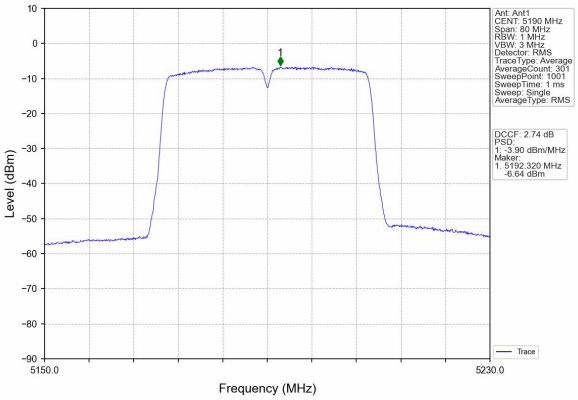
(802.11a20) PSD plot on channel 48



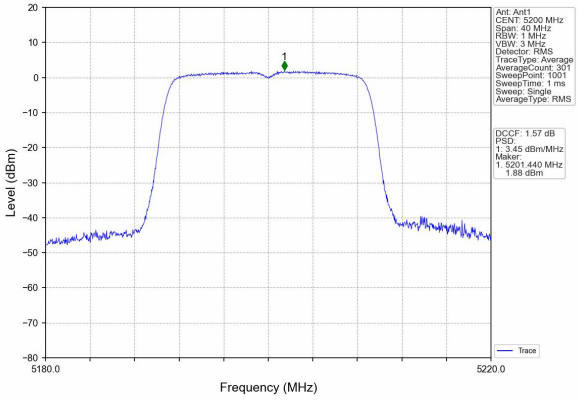
(802.11n20) PSD plot on channel 36



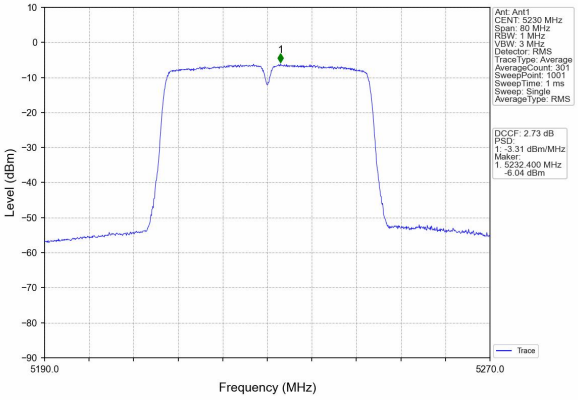
(802.11n40) PSD plot on channel 38



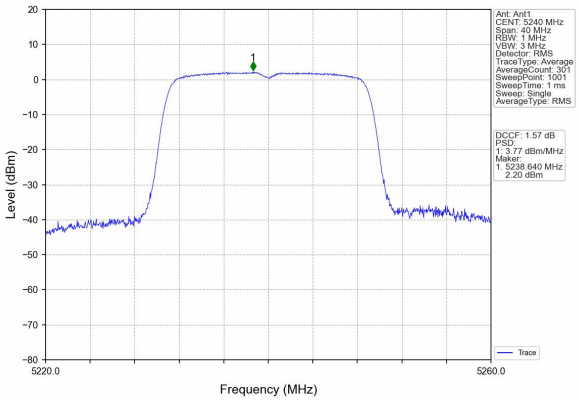
(802.11n20) PSD plot on channel 40



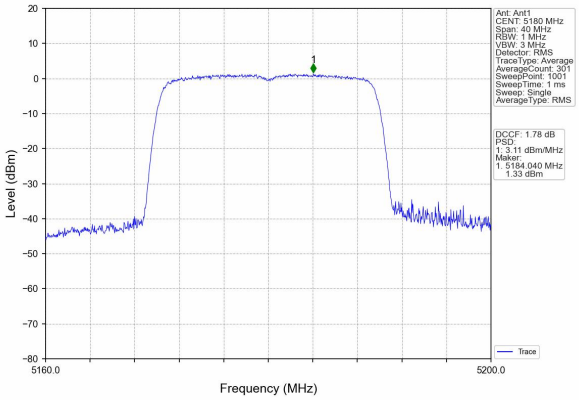
(802.11n40) PSD plot on channel 46



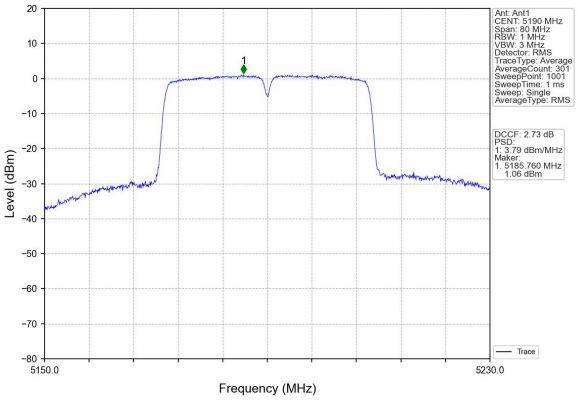
(802.11n20) PSD plot on channel 48



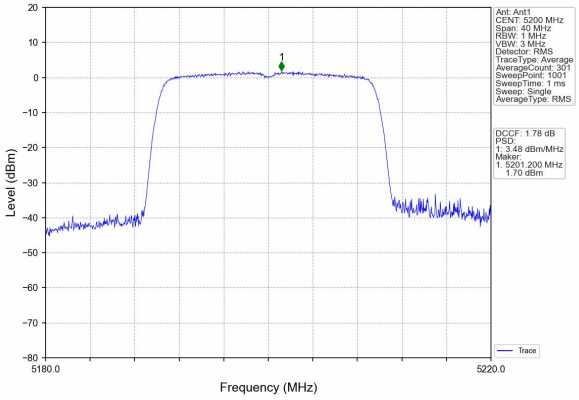
(802.11ac20) PSD plot on channel 36



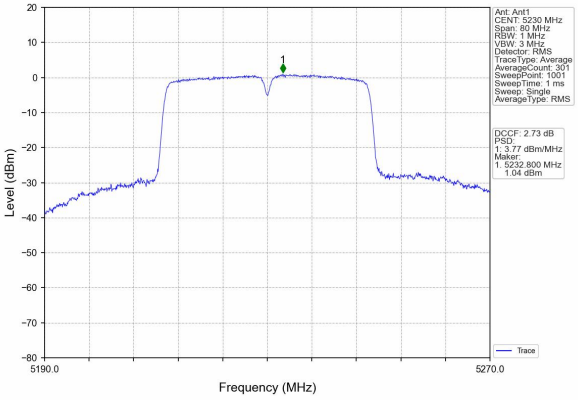
(802.11ac40) PSD plot on channel 38



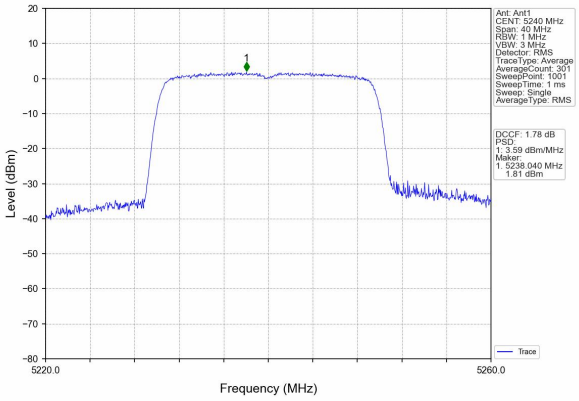
(802.11ac20) PSD plot on channel 40



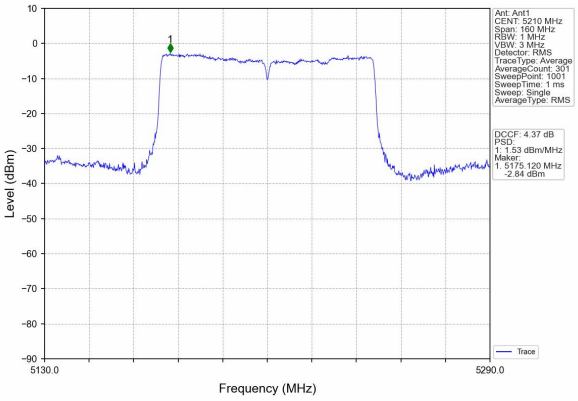
(802.11ac40) PSD plot on channel 46



(802.11ac20) PSD plot on channel 48



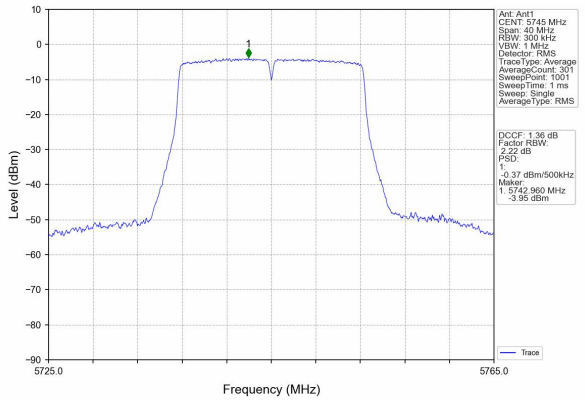
(802.11ac80) PSD plot on channel 42



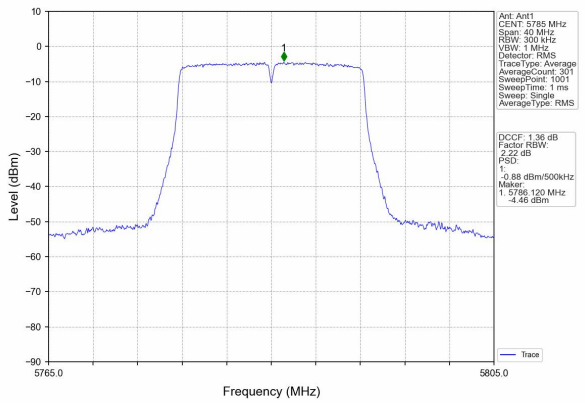
Test mode	Test Channel (MHz)	PSD [dBm/500kHz]	Limit (dBm/500kHz)	Result
802.11a20	5745	-0.37	30	Pass
	5785	-0.88	30	Pass
	5825	-0.04	30	Pass
802.11n(HT20)	5745	0.08	30	Pass
	5785	-0.66	30	Pass
	5825	-0.43	30	Pass
802.11n(HT40)	5755	-7.76	30	Pass
	5795	-7.91	30	Pass
802.11ac(VH20)	5745	-0.44	30	Pass
	5785	0.77	30	Pass
	5825	-0.48	30	Pass
802.11ac(VH40)	5755	-1.46	30	Pass
	5795	-1.28	30	Pass
802.11ac(VH80)	5775	-4.61	30	Pass

Note: The duty cycle correction factor is compensated in the graph.

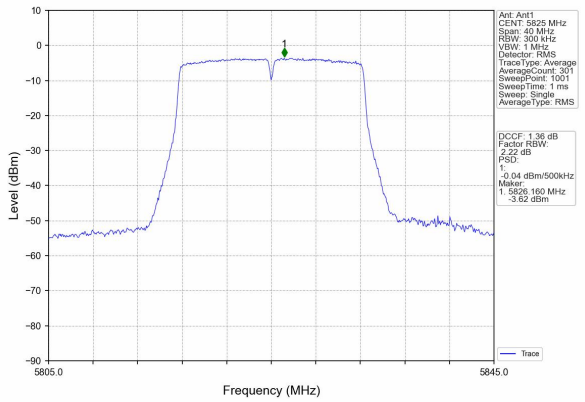
(802.11a20) PSD plot on channel 149



(802.11a20) PSD plot on channel 157

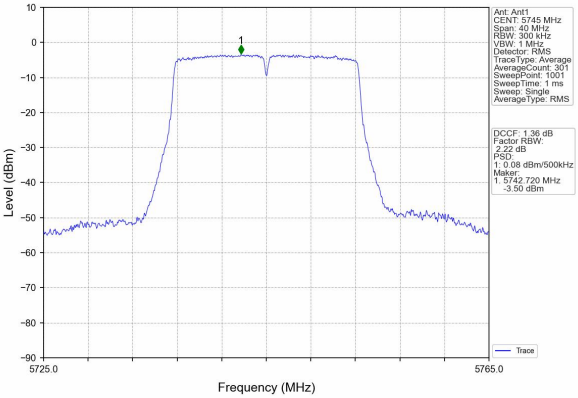


(802.11a20) PSD plot on channel 165

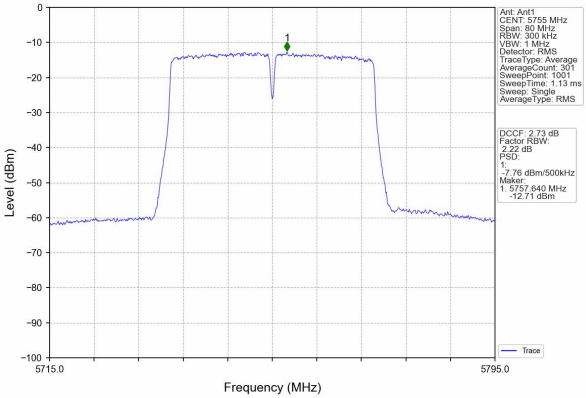


(802.11n20) PSD plot on channel 149

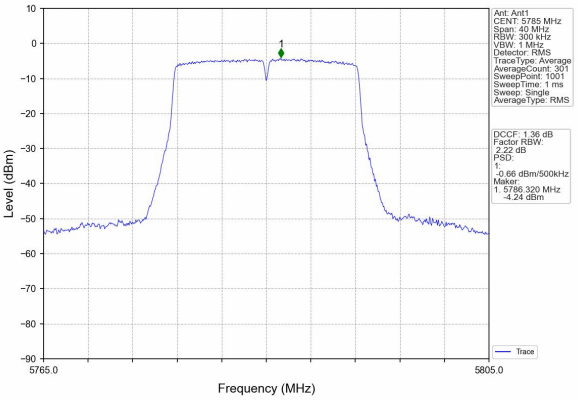
(802.11n40) PSD plot on channel 151



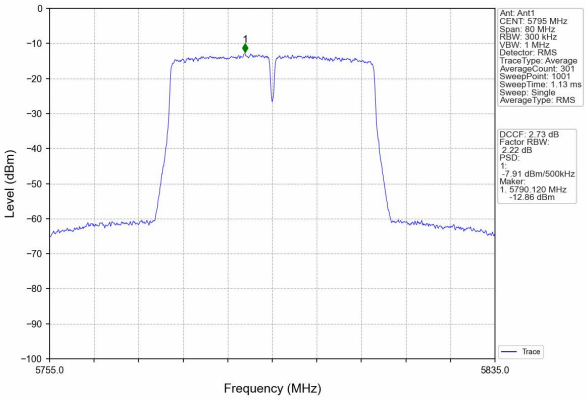
(802.11n20) PSD plot on channel 157

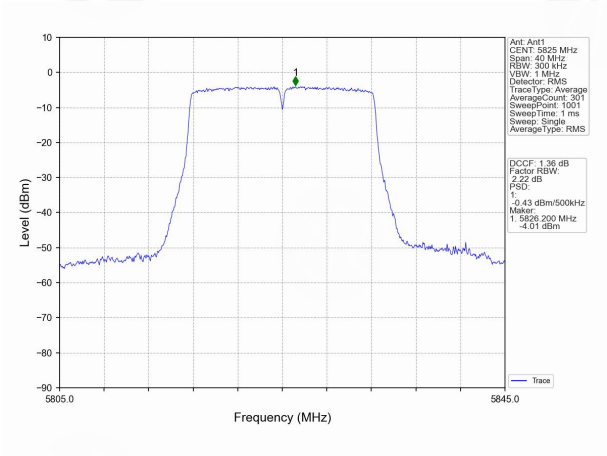


(802.11n40) PSD plot on channel 159



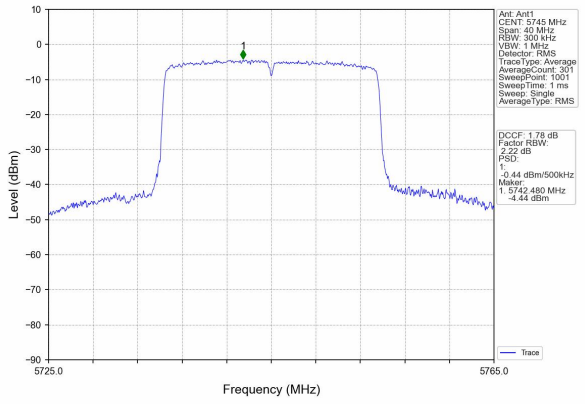
(802.11n20) PSD plot on channel 165



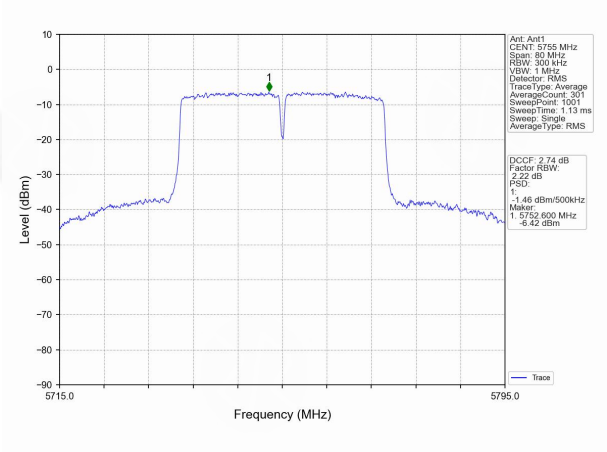


(802.11ac20) PSD plot on channel 149

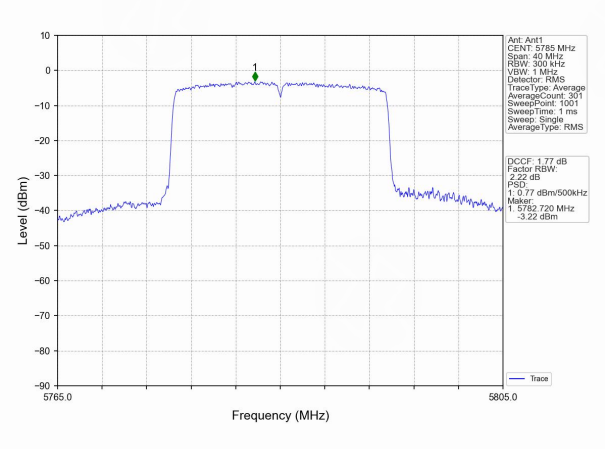
(802.11ac40) PSD plot on channel 151



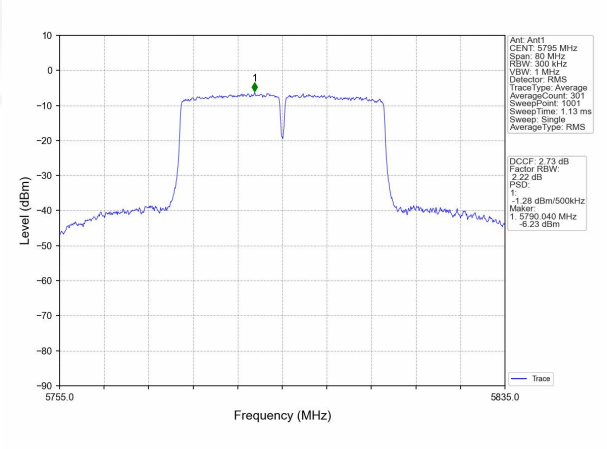
(802.11ac20) PSD plot on channel 157



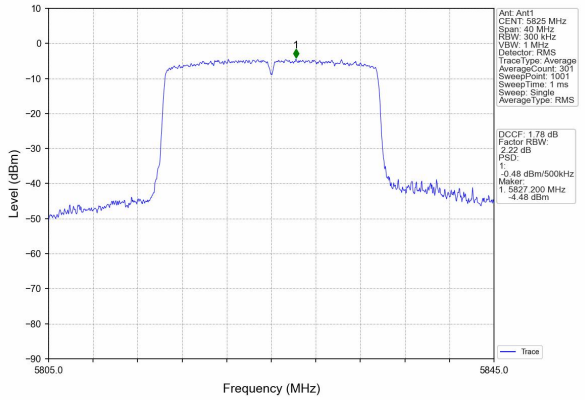
(802.11ac40) PSD plot on channel 159

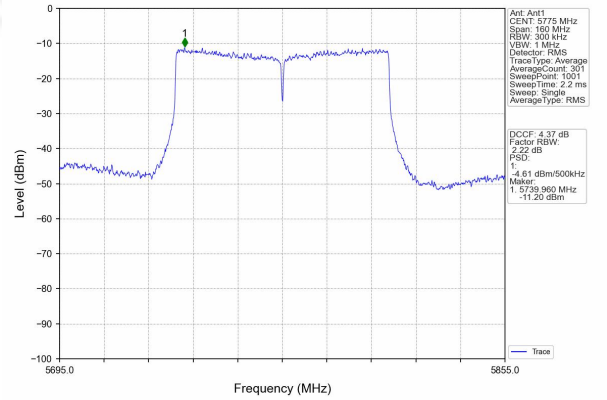


(802.11ac20) PSD plot on channel 165



(802.11ac80) PSD plot on channel 155





6. 26DB & 6DB & 99% EMISSION BANDWIDTH

6.1 APPLIED PROCEDURES / LIMIT

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band, the minimum bandwidth 6 dB bandwidth of U-NII devices shall be at least 500KHz. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

6.2 TEST PROCEDURE

a) Set RBW = 100KHz.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 12 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.4 TEST RESULTS

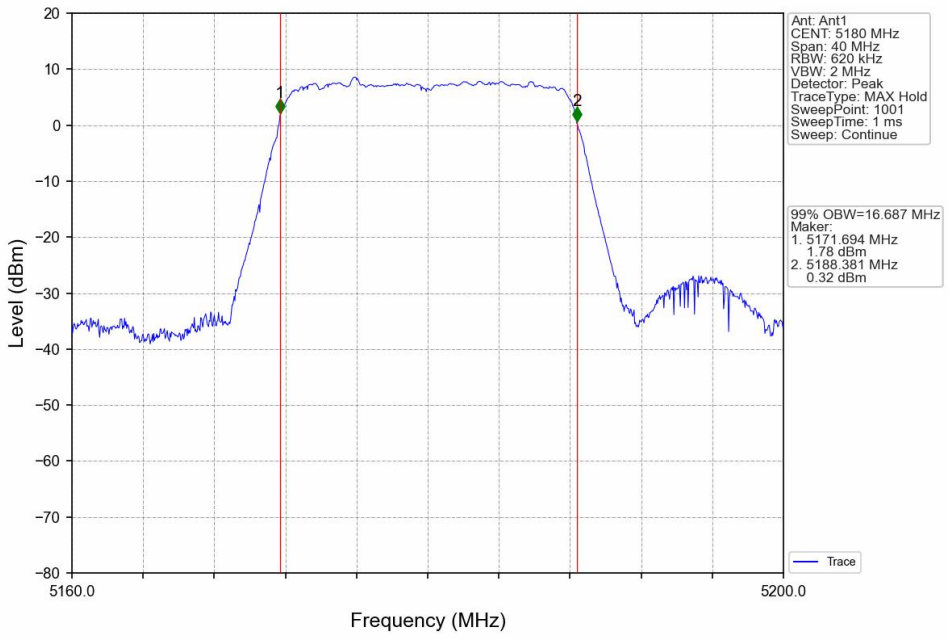
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	DC 3.6V
Test Mode :	TX		

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	1	16.687	Pass
		5200	1	16.702	Pass
		5240	1	16.731	Pass
		5745	1	16.706	Pass
		5785	1	16.706	Pass
		5825	1	16.684	Pass
802.11n (HT20)	SISO	5180	1	17.608	Pass
		5200	1	17.614	Pass
		5240	1	17.649	Pass
		5745	1	16.716	Pass
		5785	1	16.696	Pass
		5825	1	16.693	Pass
802.11n (HT40)	SISO	5190	1	36.126	Pass
		5230	1	36.157	Pass
		5755	1	36.142	Pass
		5795	1	36.158	Pass
802.11ac (VHT20)	SISO	5180	1	18.923	Pass
		5200	1	18.977	Pass
		5240	1	19.111	Pass
		5745	1	18.967	Pass
		5785	1	19.192	Pass
		5825	1	19.325	Pass
802.11ac (VHT40)	SISO	5190	1	36.845	Pass
		5230	1	36.913	Pass
		5755	1	36.646	Pass
		5795	1	36.732	Pass
802.11ac (VHT80)	SISO	5210	1	80.297	Pass
		5775	1	78.140	Pass

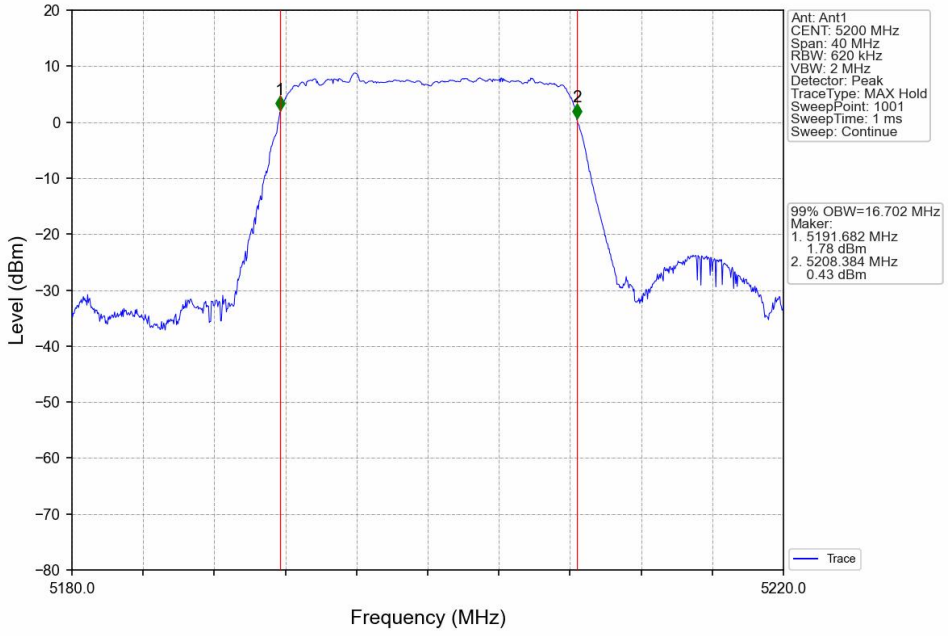
99% Occupied Bandwidth

Test Graph

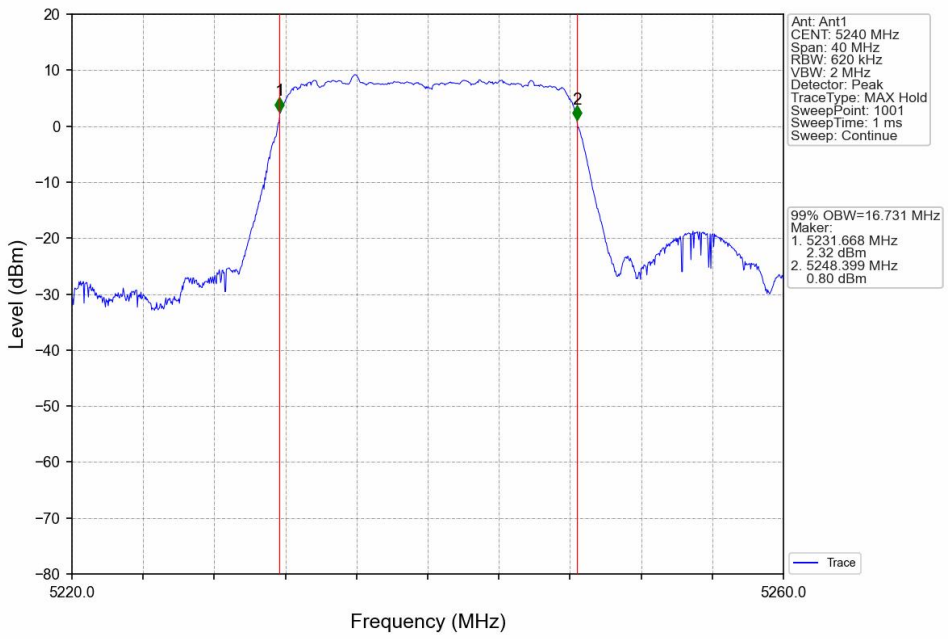
802.11a_LCH_5180MHz_Ant1_NTNV



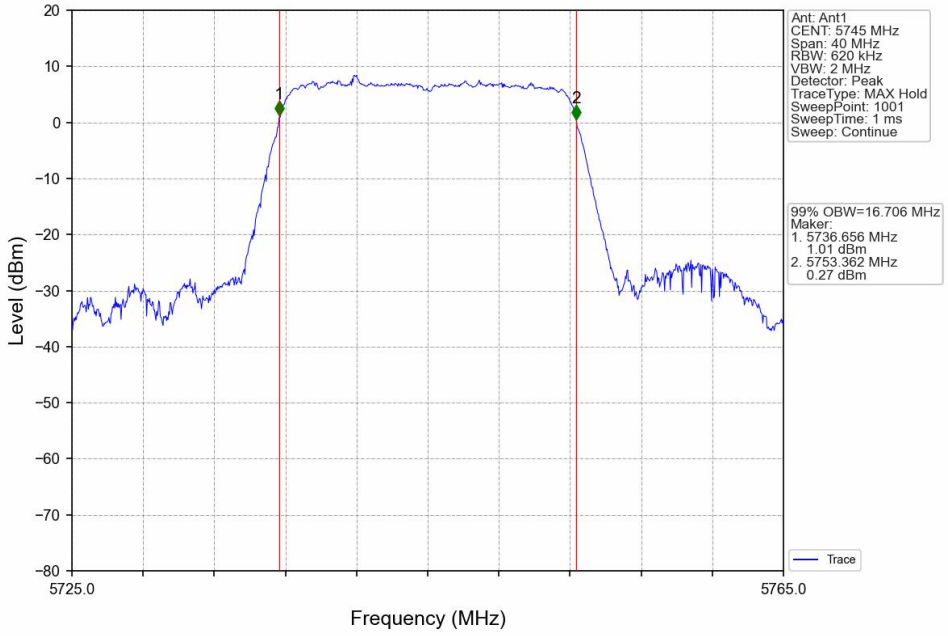
802.11a_MCH_5200MHz_Ant1_NTNV



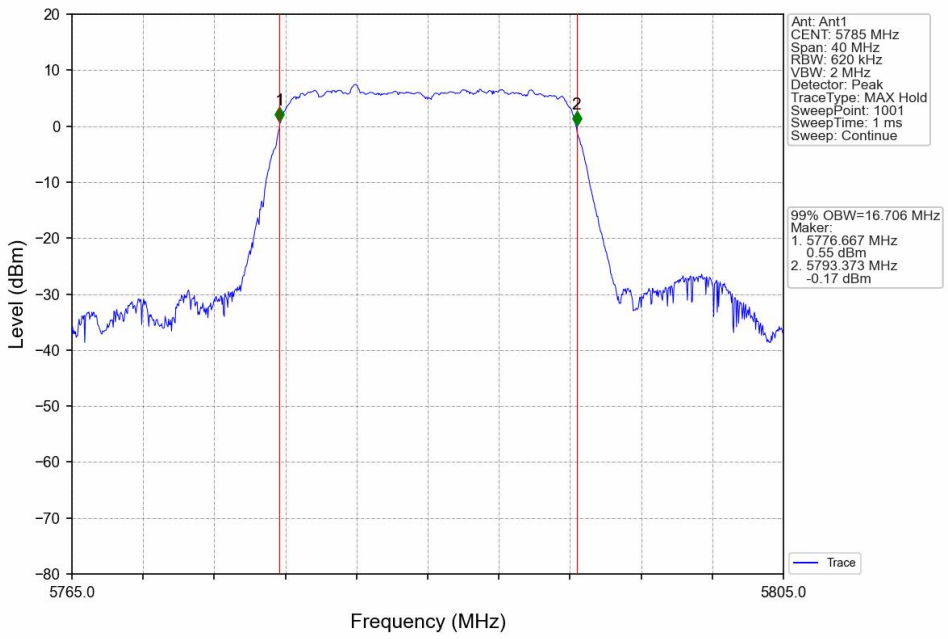
802.11a_HCH_5240MHz_Ant1_NTNV



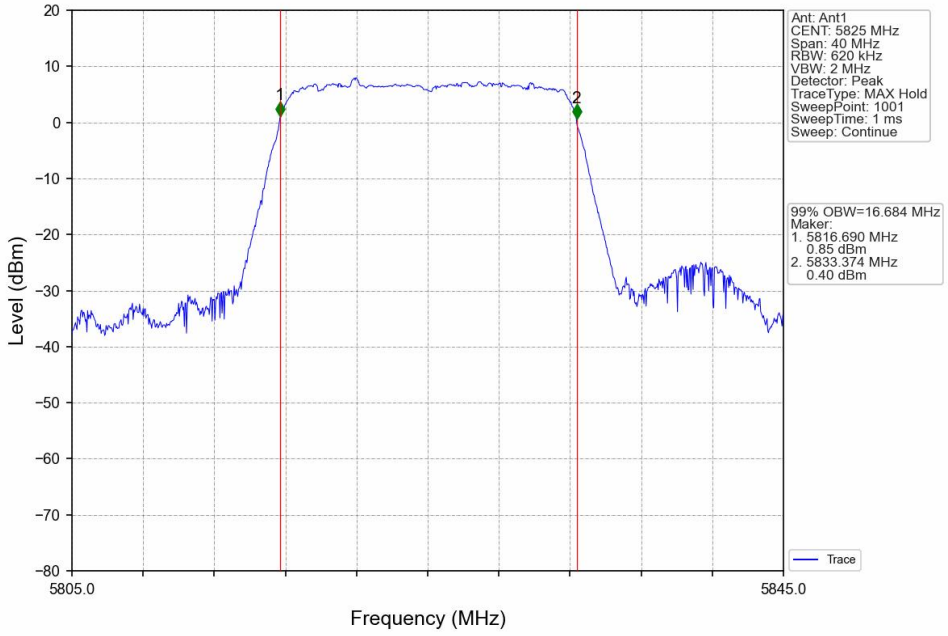
802.11a_LCH_5745MHz_Ant1_NTNV



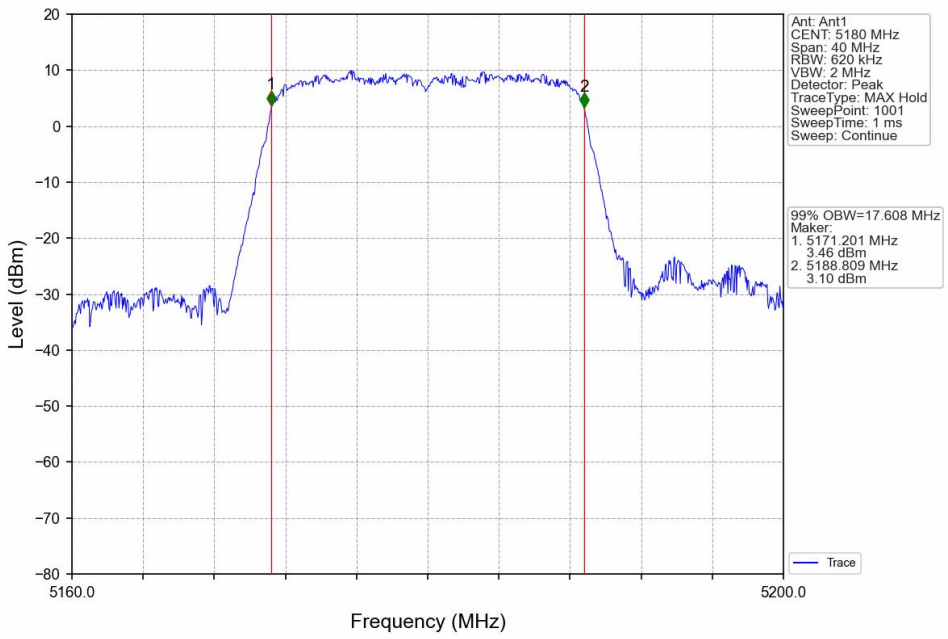
802.11a_MCH_5785MHz_Ant1_NTNV



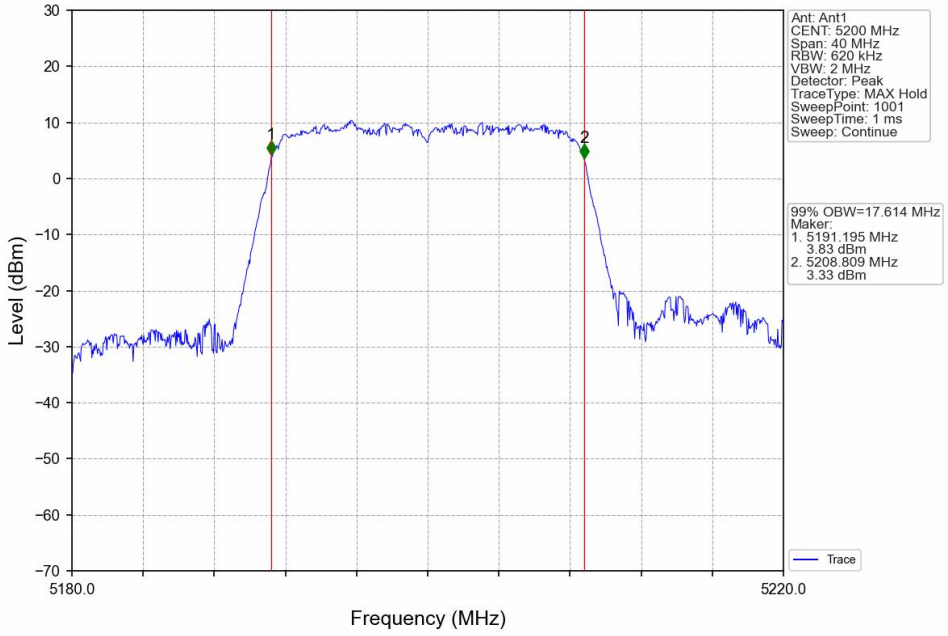
802.11a_HCH_5825MHz_Ant1_NTNV



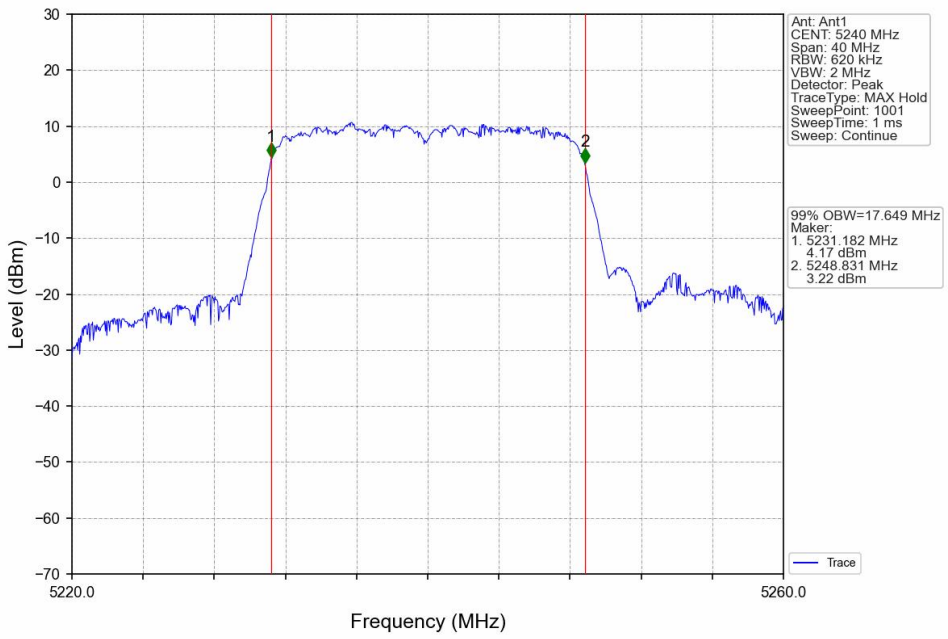
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



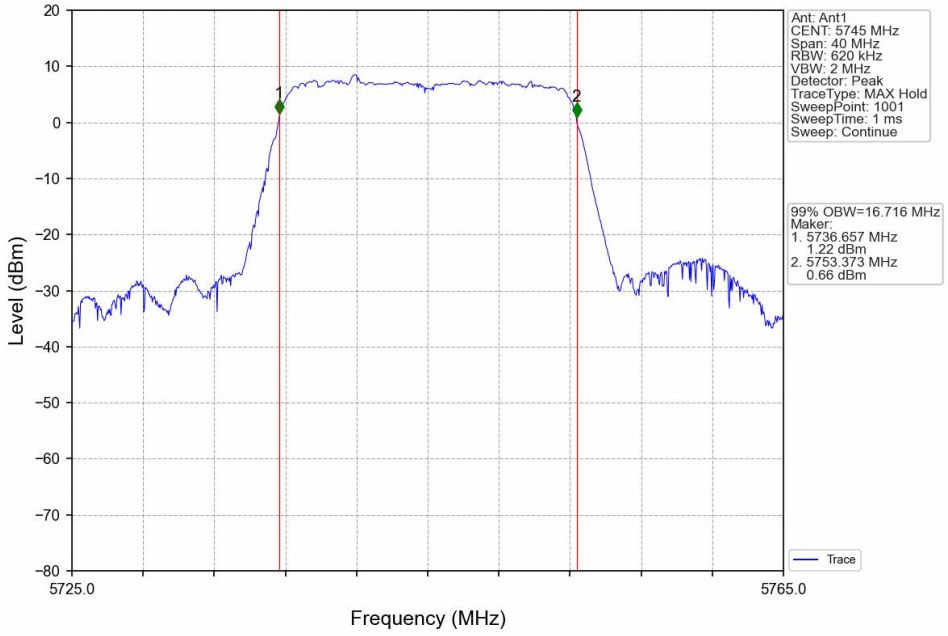
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



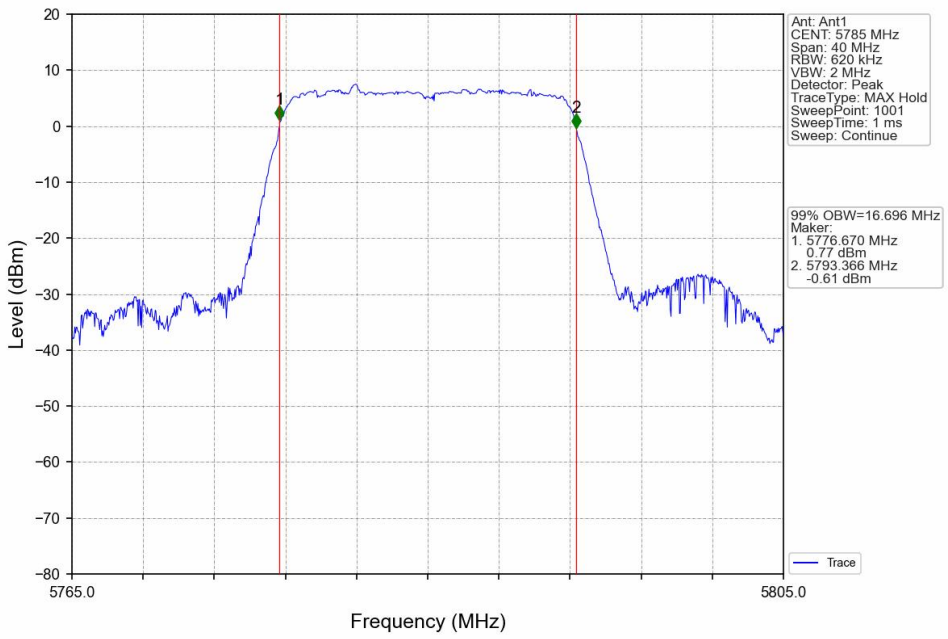
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



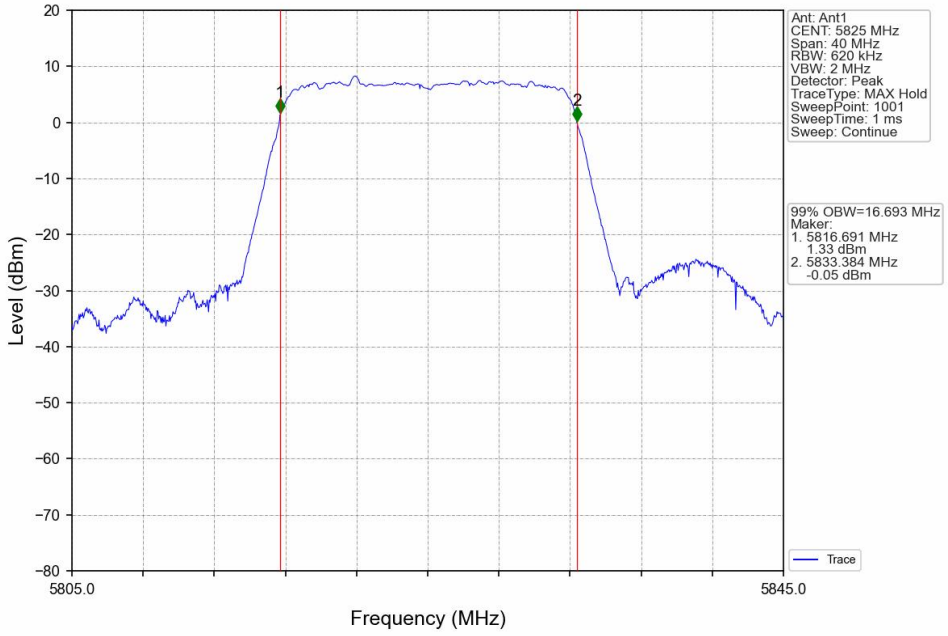
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



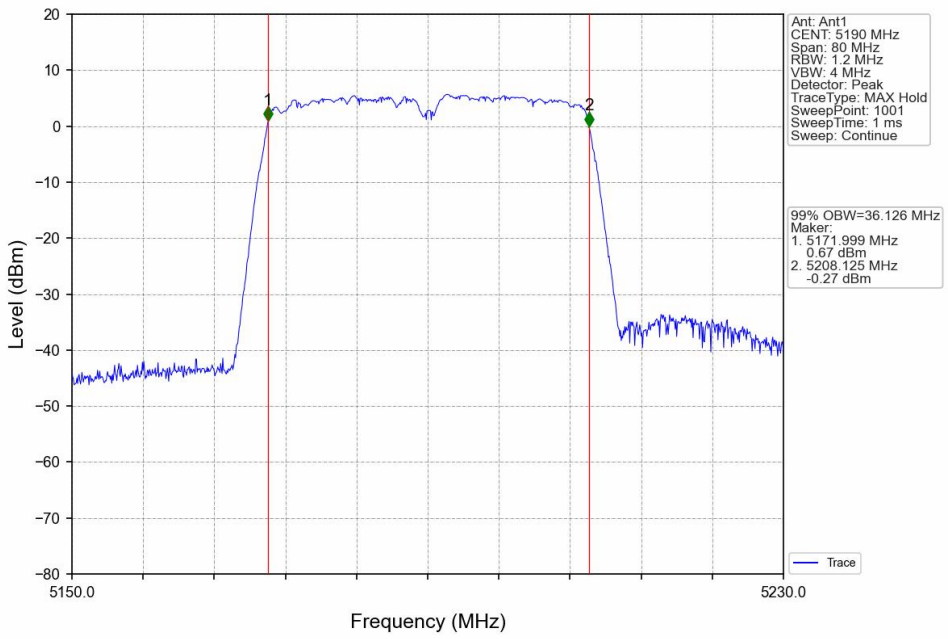
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



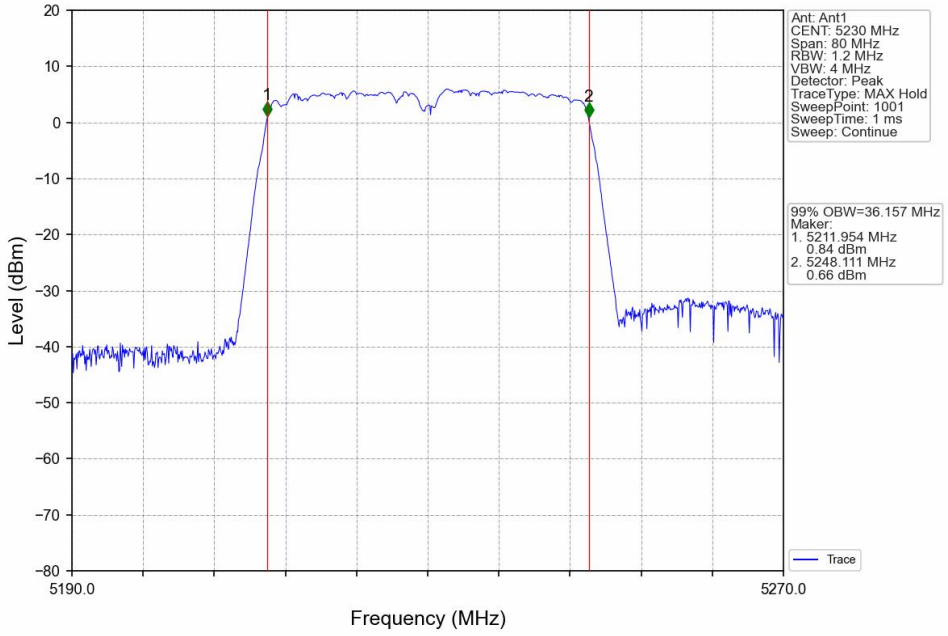
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



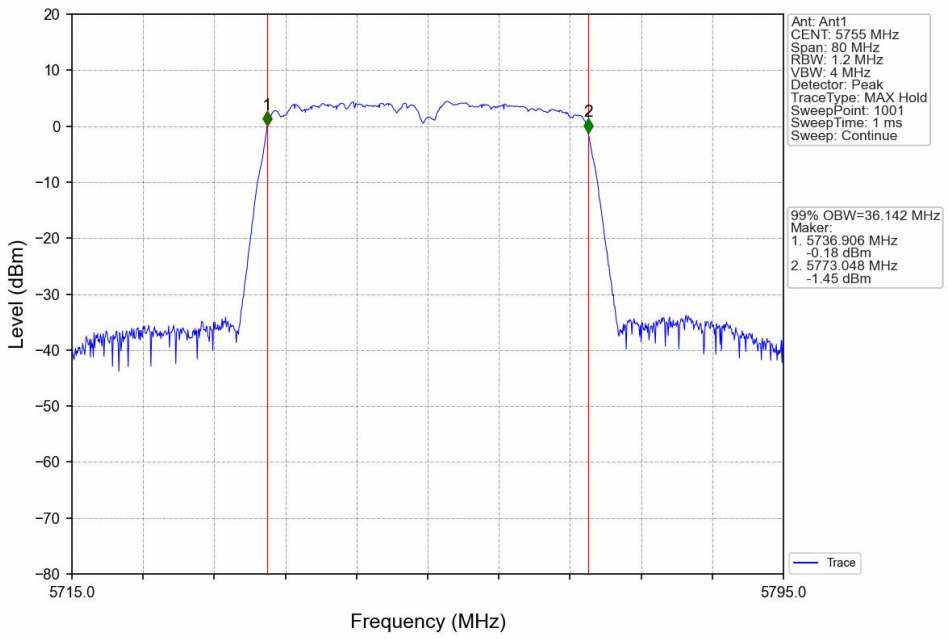
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



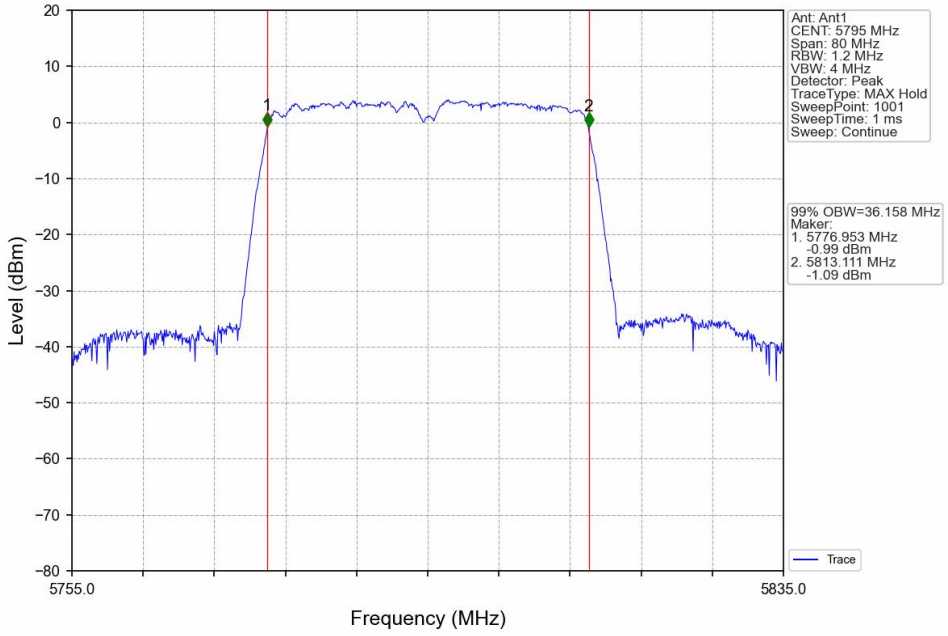
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



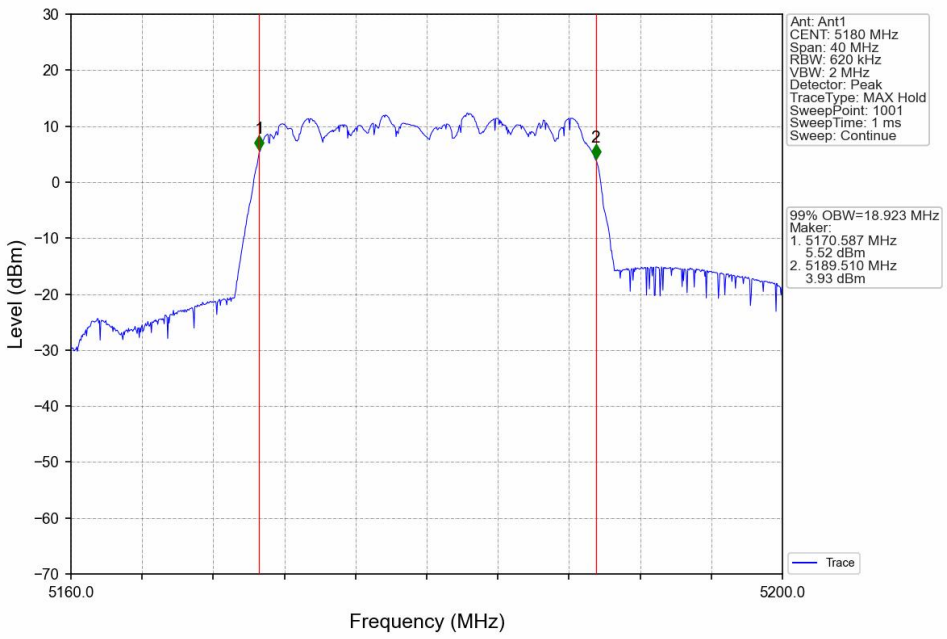
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



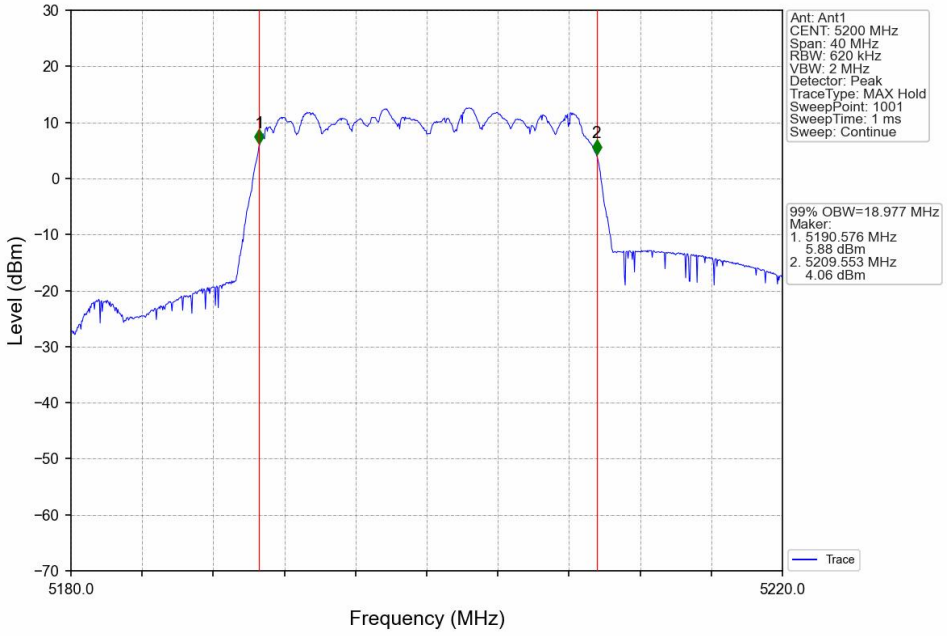
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



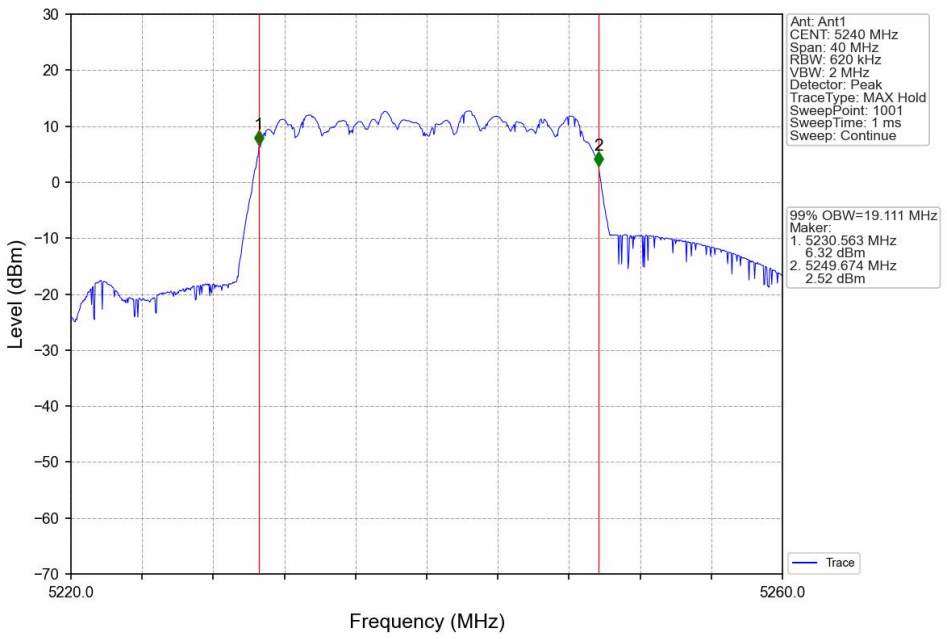
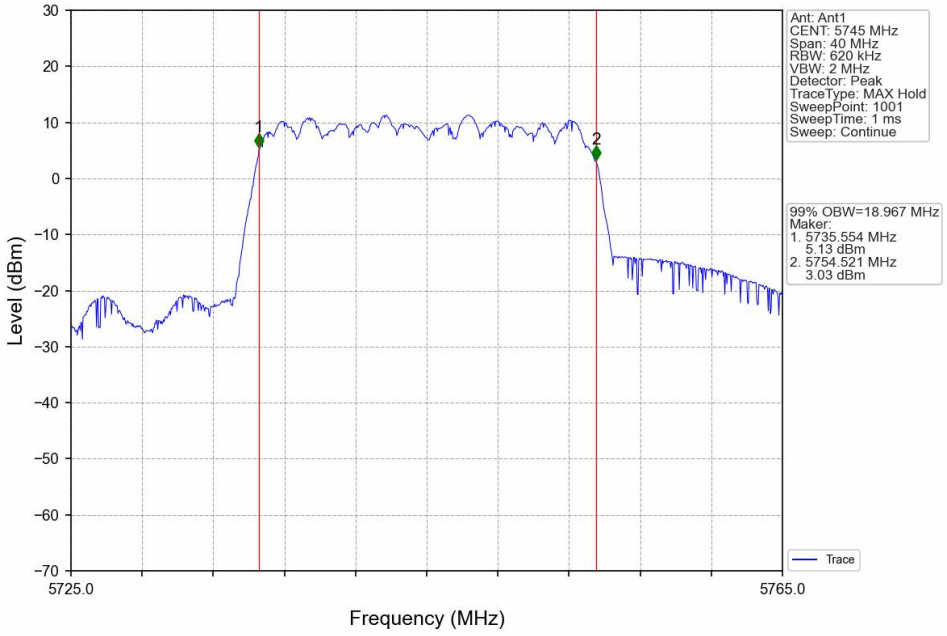
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV